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Application No.: 08/466,554
Amendment dated February 16, 2005
Reply to Office Action mailed August 16, 2004

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1-41. (Canceled)

42. (Previously Presented) A method for screening a compound to determine its ability to alter the amount of an A β (x \geq 41) peptide in a cerebral spinal fluid sample comprising:

measuring a first amount of one or more soluble A β (x \geq 41) peptides in the cerebral spinal fluid sample of a non-human animal model that expresses amyloid- β precursor protein (APP) in the brain and processes it to the one or more soluble A β peptides;

administering the compound to the non-human animal model;

measuring a second amount of the one or more soluble A β peptides in the cerebral spinal fluid sample of the non-human animal model; and

comparing the first amount with the second amount,

the difference indicating whether the compound increases, decreases, or leaves unchanged the amount of soluble A β (x \geq 41) in the cerebral spinal fluid sample, wherein the amount of A β (x \geq 41) is measured by exposing the cerebral spinal fluid to an antibody or fragment thereof specific for an epitope of A β (x \geq 41) but that does not cross react with an epitope of A β (x \leq 40).

43. (Previously Presented) The method of claim 42, wherein the non-human animal model is a rodent model.

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44. (Previously Presented) The method of claim 43, wherein the rodent model is a mouse model.

45. (Currently Amended) The method of claim 42, wherein the non-human animal model is a transgenic ~~rodent animal~~ model having an expression cassette that drives the expression of a sequence which encodes the Swedish mutation of an amyloid precursor protein (APP) gene.

46. (Cancel)

47. (Canceled)

48. (Previously Presented) The method of claim 42, wherein the antibody of fragment thereof binds to A β (x \geq 41) is A β (x-42).

49-50. (Canceled)

51. (Previously Presented) The method of claim 42, wherein antibody or fragment thereof is an antibody recognizing an epitope on A β having amino acid residues 33-42.

52. (Previously Presented) The method of claim 51, wherein the antibody or fragment thereof is an antibody that will ~~specifically~~ bind to A β (x \geq 41).

53. (Canceled)

54. (Previously Presented) The method of claim 51, wherein the antibody or fragment thereof is an antibody that will ~~specifically~~ bind to A β (x \geq 43).